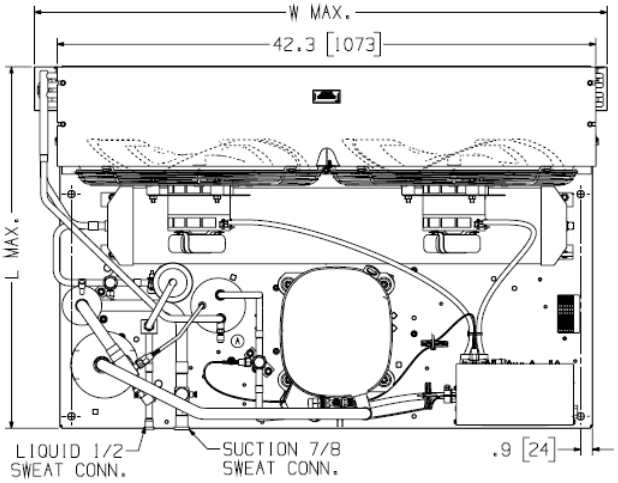
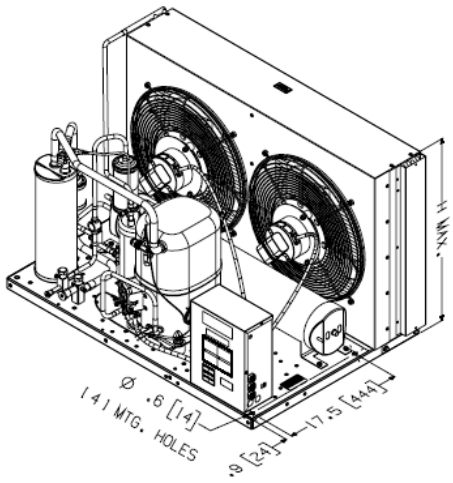
March 16, 2011

Tecumseh Compressor Company
Indoor Condensing Units

Model: AGA4572EXNXF **BoM: 2A6005-1** **R-22** **6 HP** **AIRCOOLED**





Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AGA4572EXNXF	28.6	44.9	26.9	18.3	7/8” S	1/2” S	51.33 lbs	4200	65	380
* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting										

		Ambient Temperatures								
Evaporator T,		90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
20	43.0	44000	5920	109.7	39400	6020	118.1	34700	6070	126.9
30	54.8	55000	6570	114.4	50000	6720	121.9	45100	6920	130.2
40	68.5	67000	7370	118.1	62500	7570	125.8	57400	7820	135.0
45	76.0	72000	7820	120.8	67500	8070	129.1	62100	8270	137.1
50	84.0	80000	8220	123.3	75000	8540	130.2	70100	8770	139.0

60 Hz Performance

Return gas temp. 65°F, 5°F sub cooling

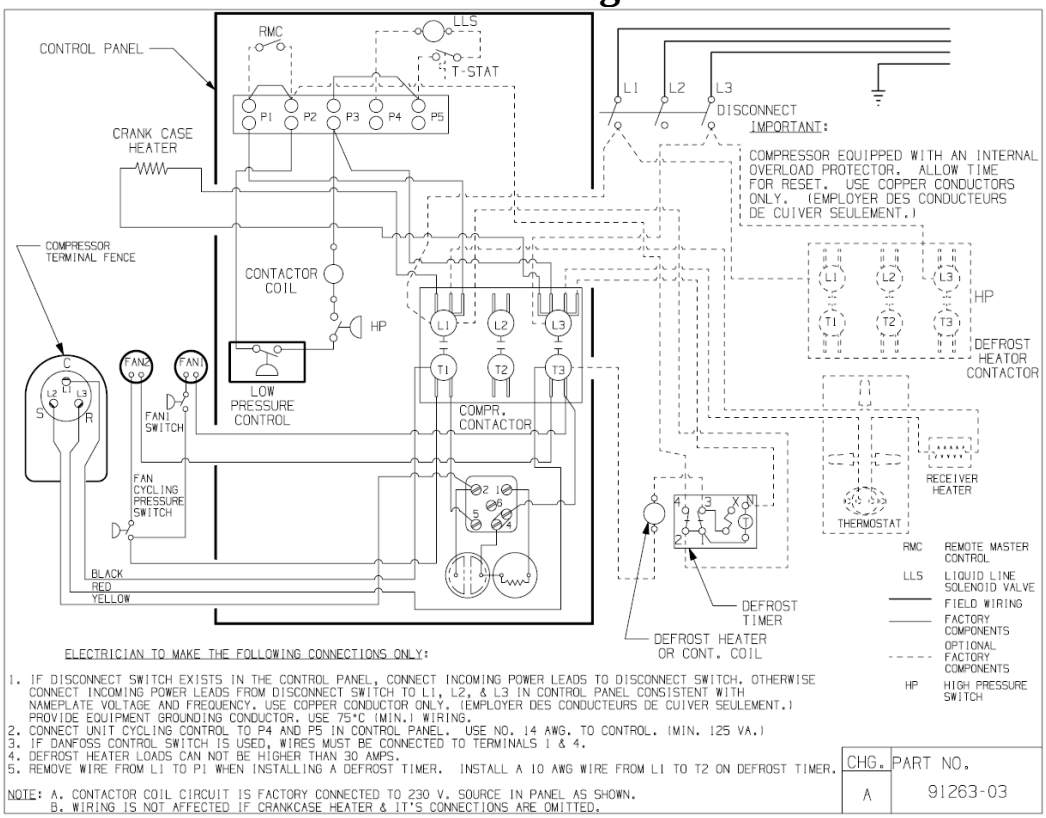
March 16, 2011

Specifications/ Parts:

Model	AGA4572EXNXF
Unit Bill of Material	2A6005-1
Nominal Volts-Hz-Ph	208-230-60-1
Refrigeration Range	20° to 50°F
Design Pressure Low	150
Design Pressure High	450
Voltage Range	187 to 254
Min. Circuit Ampacity	47.3
Max. Fuse Size (amps)	80
Compressor Model	AGA5568EXN
Comp. Bill of Material	AG144ET-019-P2
Compressor RLA/LRA	34.6 / 179.0
Overload	INTERNAL
Relay	820ARR3K38
Run Capacitor	85PR440E90
Run Capacitor Rating	55MFD 440V(M)VDE
Start Capacitor	85PS330D16
Start Capacitor Rating	130-156 MFD 330V VDE
Contactor	91012
Unit Drawing	DGU1901-45
Wiring Diagram	91263-03

Fan Motor	810S186B40 (2)
Fan Motor RLA	1.9 Each
Fan Blade	51528-3 (2)
Fan Guard	70832 (2)
Fan Shroud	70611-1
High Pressure Switch	84095-1
Low Pressure Control	84026-2
Oil Separator *	704-00003
Condenser	50777-6
Fan Switch	84096-1
Fan Switch	84096-2
Receiver Tank	51083
Liquid Valve	56596
Liquid Filter *	70126-3
Sight Glass *	70084-2
Suction Valve *	31529-1
Rotolock Valve Gasket	30233
Discharge Valve	56596
Suction Filter *	70082
Accumulator *	TK00044000
Crankcase Heater	90699
Defrost Timer *	N/A
Suction Shut Off Valve*	56500-K14
Liquid Shut Off Valve*	56500-K08
Shrader Valve Body*	56510
Valve Core*	56552
* = Equipped Units Only	

Electrical Diagram


CONTROL PANEL
RMC
LLS
T-STAT
P1 P2 P3 P4 P5
CRANK CASE HEATER
COMPRESSOR TERMINAL FENCE
CONTACTOR COIL
HP
LOW PRESSURE CONTROL
FAN2
FAN1
FAN1 SWITCH
FAN CYCLING PRESSURE SWITCH
COMPR. CONTACTOR
L1 L2 L3
DISCONNECT
IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
T1 T2 T3
DEFROST HEATOR CONTACTOR
RECEIVER HEATER
THERMOSTAT
DEFROST TIMER
DEFROST HEATER OR CONT. COIL
BLACK
RED
YELLOW
RMC REMOTE MASTER CONTROL
LLS LIQUID LINE SOLENOID VALVE
FIELD WIRING
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
HP HIGH PRESSURE SWITCH
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. IF DISCONNECT SWITCH EXISTS IN THE CONTROL PANEL, CONNECT INCOMING POWER LEADS TO DISCONNECT SWITCH. OTHERWISE CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1, L2, & L3 IN CONTROL PANEL CONSISTENT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTOR ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P4 AND P5 IN CONTROL PANEL. USE NO. 14 AWG. TO CONTROL. (MIN. 125 VA.)
3. IF DANFOSS CONTROL SWITCH IS USED, WIRES MUST BE CONNECTED TO TERMINALS 1 & 4.
4. DEFROST HEATER LOADS CAN NOT BE HIGHER THAN 30 AMPS.
5. REMOVE WIRE FROM L1 TO P1 WHEN INSTALLING A DEFROST TIMER. INSTALL A 10 AWG WIRE FROM L1 TO T2 ON DEFROST TIMER.
NOTE: A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V. SOURCE IN PANEL AS SHOWN.
B. WIRING IS NOT AFFECTED IF CRANKCASE HEATER & IT'S CONNECTIONS ARE OMITTED.
CHG. A
PART NO. 91263-03